



ELSEVIER

EPSL

Earth and Planetary Science Letters 180 (2000) 429–430

www.elsevier.com/locate/epsl

Contents Volume 180

Regular Letters

A SHRIMP U–Pb study of zircons from the layered sequence of the Great Dyke, Zimbabwe, and a granitoid anatetic dyke R. Armstrong and A.H. Wilson	1
⁴⁰ Ar/ ³⁹ Ar dating of mineral separates and whole rocks from the Western Ghats lava pile: further constraints on duration and age of the Deccan traps C. Hofmann, G. Féraud and V. Courtillot	13
Isotopic study of neutron capture effects on Sm and Gd in chondrites H. Hidaka, M. Ebihara and S. Yoneda	29
The origin of air-like noble gases in MORB and OIB C.J. Ballentine and D.N. Barfod	39
Reliability of relative palaeointensities of a sediment core with climatically-triggered strong magnetisation changes M. Haag	49
Rock magnetic detection of distal ice-rafted debries: clue for the identification of Heinrich layers on the Portuguese margin N. Thouveny, E. Moreno, D. Delanghe, L. Candon, Y. Lancelet and N.J. Shackleton	61
Internal configuration of the Levantine Basin from seismic reflection data (eastern Mediterranean) N. Vidal, J. Alvarez-Marrón and D. Klaeschen	77
Deflation acting on Pantelleria island (Sicily Channel) inferred through geodetic data A. Bonaccorso and M. Mattia	91
The depth distribution of seismicity parameters estimated for the South American area T.M. Tsapanos	103
On the fit of Broken Ridge and Kerguelen plateau A.A. Tikku and S.C. Cande	117
Relationships between geochemistry and structure beneath a palaeo-spreading centre: a study of the mantle section in the Oman ophiolite M. Godard, D. Jousselin and J.-L. Bodinier	133
Stable isotope geochemistry of authigenic clay minerals from Late Permian coal measures, Queensland, Australia: implications for the evolution of the Bowen Basin I.T. Uysal, S.D. Golding and K. Baublys	149
Effect of pressure on the decay rate of ⁷ Be L.-g. Liu and C.-A. Huh	163
Local deformation in compacting flows: development of pressure shadows D. McKenzie and M. Holness	169
In situ crystallization observed in the Osumi granodiorite batholith K. Nishimura and T. Yanagi	185
Experimental constraints on bubble interactions in rhyolite melts: implications for vesicle size distributions J.F. Larsen and J.E. Gardner	201
Discussion	
Comment on “Helium, heat and the generation of hydrothermal event plumes at mid-ocean ridges”, by J.E. Lupton, E.T. Baker and G.J. Massoth M.R. Palmer and G.G.J. Ernst	215
Reply to Comment by M.R. Palmer and G.G.J. Ernst on “Helium, heat, and the generation of hydrothermal event plumes at mid-ocean ridges” by J.E. Lupton, E.T. Baker and G.J. Massoth J.E. Lupton, E.T. Baker and G.J. Massoth	219

Erratum

Erratum to "Diffusion closure temperature and age of a mineral with arbitrary extent of diffusion: theoretical formulation and applications" [Earth Planet. Sci. Lett. 170 (1999) 131–140]
 J. Ganguly and M. Tirone

223

Regular Letters

The tectonic and geomagnetic significance of paleomagnetic observations from volcanic rocks from central Afar, Africa
 G.D. Acton, A. Tessema, M. Jackson and R. Bilham

225

Paleomagnetic constraints on the Plio–Pleistocene geodynamic evolution of the external central–northern Apennines (Italy)
 L. Sagnotti, A. Winkler, L. Alfonsi, F. Florindo and F. Marra

243

The role of lower continental crust and lithospheric mantle in the genesis of Plio–Pleistocene volcanic rocks from Sardinia (Italy)
 M. Lustrino, L. Melluso and V. Morra

259

Secondary remanent magnetization carried by magnetite inclusions in silicates: a comparative study of unremagnetized and remagnetized granites
 Y.-i. Otofuji, K. Uno, T. Higashi, T. Ichikawa, T. Ueno, T. Mishima and T. Matsuda

271

Multiple origins and interpretations of the magnetic susceptibility signal in Chinese wind-blown sediments
 J. Sun and T. Liu

287

Southern limit of mantle-derived geothermal helium emissions in Tibet: implications for lithospheric structure
 L. Hoke, S. Lamb, D.R. Hilton and R.J. Poreda

297

Preservation of near-solar neon isotopic ratios in Icelandic basalts
 E.T. Dixon, M. Honda, I. McDougall, I.H. Campbell and I. Sigurdsson

309

Isotope geochemistry of Pantelleria volcanic fluids, Sicily Channel rift: a mantle volatile end-member for volcanism in southern Europe
 F. Parello, P. Allard, W. D'Alessandro, C. Federico, P. Jean-Baptiste and O. Catani

325

Depletion of a brine layer at the base of ridge-crest hydrothermal systems
 S. Schoofs and U. Hansen

341

Transitions in thermal convection with strongly temperature-dependent viscosity in a wide box
 M. Kameyama and M. Ogawa

355

A modified Archie's law for two conducting phases
 P.W.J. Glover, M.J. Hole and J. Pous

369

Rb–Sr microchrons of synkinematic mica in mylonites: an example from the DAV fault of the Eastern Alps
 W. Müller, N.S. Mancktelow and M. Meier

385

Diffusion of osmium in pyrrhotite and pyrite: implications for closure of the Re–Os isotopic system
 J.M. Brenan, D.J. Cherniak and L.A. Rose

399

SiO₂ precipitation in olivine: ATEM investigation of two dunites annealed at 300 MPa in hydrous conditions
 P. Raterson, P. Chopra and J.-C. Doukhan

415

Author Index Volume 180

425

